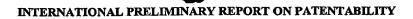
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PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 71164PC/RO	FOR FURTHER ACTION See Form PCT/IPEA/416								
International application No.	International filing date (day/mont	h/year) Priority date (day/month/year)							
PCT/SE 2002/002207	29.11.2002	23.01.2002							
International Patent Classification (IPC)	or national classification and IPC								
E21B 4/14 // B25D 9/2	6								
Applicant									
ATLAS COPCO SECOROC AB et al									
TITIED COLCO BECORDO I									
	eliminary examination report, estable ransmitted to the applicant according	ished by this International Preliminary Examining to Article 36.							
2. This REPORT consists of a total	of 3 sheets, including	g this cover sheet.							
This report is also accompanied t	y ANNEXES, comprising:								
a. (sent to the applican	t and to the International Bureau) a	total of sheets, as follows:							
	·	which have been amended and are the basis of this report							
and/or sheets	containing rectifications authorized ve Instructions).	by this Authority (see Rule 70.16 and Section 607 of the							
		this Authority considers contain an amendment that goes							
beyond the d	isclosure in the international applica	tion as filed, as indicated in item 4 of Box No. I and the							
Supplementa	I Box.								
b (sent to the Internation		e type and number of electronic carrier(s))							
modeble form only	, containing a seque	ence listing and/or tables related thereto, in computer to Relating to Sequence Listing (see Section 802 of the							
Administrative Instra		A Relating to Sequence Disting (see Section 502 of the							
4. This report contains indications r	elating to the following items:								
Box No. I Basis o	of the report								
Box No. II Priority	<i>i</i>								
Box No. III Non-es	stablishment of opinion with regard t	o novelty, inventive step and industrial applicability							
Box No. IV Lack o	f unity of invention								
Box No. V Reasor	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial								
	bility; citations and explanations sup a documents cited	oporting such statement							
	defects in the international applicat	ion							
اسط	observations on the international approach								
Box No. VIII Certain	ouservations on the international ap	phication							
Date of submission of the demand		completion of this report							
25.07.2003	29.0	1.2004							
Name and mailing address of the IPEA/S	E Authoriz	zed officer							
Patent- och registreringsverket Box 5055									
S-102 42 STOCKHOLM	Jörge	en Klöfver / MRo							
Facsimile No. +46 8 667 72 88		ne No. +46 8 782 25 00							



Internation No.

PCT/SE 2002/002207

Box	No. I	Basis of the report					
1.	otherw	egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.					
•		This report is based on a translation from the original language into the following language <u>English</u> , which is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))					
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	furnish	th regard to the elements of the international application, this report is based on (replacement sheets which have been nished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" I are not annexed to this report):					
	\boxtimes	the international application as originally filed/furnished					
		the description:					
	-	pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
	Ш	the claims:					
		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the drawings:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
	•	the drawings, sheets/figs					
		any table(s) related to the sequence listing (specify):					
*	If item	4 applies, some or all of those sheets may be marked "superseded."					



Internal application No.

PCT/SE 2002/002207

Box	No. V	Reasoned statement u	nder Article 3 ions supporti	35(2) with regard to novelty, inventive step or industrial applicability; ng such statement	;
1.	Statement			·	
	Novelty (N)		Claims	1-9	YES
			Claims		NO
	Inventive step (IS)		Claims	1-9	YES
			Claims		NO
	Indust	rial applicability (IA)	Claims	1-9	YES
•			Claims		NO
				· ·	

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: GB 1419981 A
D2: US 5277260 A
D3: US 4102534 A
D4: US 4821812 A

The cited documents represent the general state of the art. The invention defined in claims 1-9 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed compressed air percussive mechanism for a down hole hammer and down hole hammer. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-9 is novel and is considered to involve an inventive step. The invention is industrially applicable.